

WHAT IS CLAIMED IS:

1. An optical imaging system comprising:
a light source for emitting light to a sample;
a small-diameter probe;
a fiber optic bundle, arranged in the probe, for
guiding light from the light source to the sample;
light detecting means for detecting light reflected by
the sample;
image generating means for generating an image on the
basis of signals obtained by the light detecting means;
connecting means for detachably connecting the probe to
at least one of the light source, the light detecting means,
and the image generating means; and
position adjusting means for adjusting the relative
positional relation between the end face of the fiber bundle
close to the light source and light, which is emitted from
the light source and is incident on the fiber bundle.

2. The system according to Claim 1, wherein the
position adjusting means is arranged inside the connecting
means.

3. The system according to Claim 1, further
comprising:

automatic control means for automatically controlling the position adjusting means.

4. The system according to Claim 1, further comprising:

first converging means, arranged between the end face of the fiber optic bundle close to the light source and the light source, for converging the light from the light source to the fiber bundle, wherein

the position adjusting means adjusts the relative positional relation between the first converging means and the end face of the fiber optic bundle close to the light source.

5. The system according to Claim 4, wherein the position adjusting means adjusts the position of the first converging means.

6. An optical imaging system comprising:
a light source for emitting light to a sample;
a small-diameter probe;
a fiber optic bundle, arranged in the probe, for guiding light from the light source to the sample;
light detecting means for detecting light reflected by the sample;

image generating means for generating an image on the basis of signals obtained by the light detecting means;

a needle portion at the distal end of the probe with which the distal end of the probe is insertable into the sample; and

connecting means for detachably connecting the probe to at least one of the light source, the light detecting means, and the image generating means.

7. The system according to Claim 6, further comprising:

position adjusting means for adjusting the relative positional relation between the end face of the fiber bundle close to the light source and light, which is emitted from the light source and is incident on the fiber bundle.

8. The system according to Claim 7, wherein the position adjusting means is arranged inside the connecting means.

9. The system according to Claim 7, further comprising:

automatic control means for automatically controlling the position adjusting means.

10. The system according to Claim 7, further comprising:

first converging means, arranged between the end face of the fiber optic bundle close to the light source and the light source, for converging the light from the light source to the fiber bundle, wherein

the position adjusting means adjusts the relative positional relation between the first converging means and the end face of the fiber optic bundle close to the light source.

11. The system according to Claim 10, wherein the position adjusting means adjusts the position of the first converging means.